# **Bureau of Land Management**



# Amarillo Field Office Helium Operations

Statistical Report for July - 2006





#### Distribution:

Fluid Minerals Group Manager, Washington Office

NMSO, New Mexico State Director

NMSO, Associate State Director

NMSO, Petroleum Engineer

Field Manager, Amarillo Field Office

Assistant Field Managers (3)

Team Leaders

- -Federal Leased Lands
- -Resources Evaluation & Gas Analysis
- -Natural Gas Engineering

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Amarillo, Texas

Issued: August 31, 2006

"Please Note: Data in this report is accurate as of print date; however all data is subject to change."

Approved for distribution: Nelson R. Bullard Date: 08/31/2006

	Cross Volume		Average Dereset	Cross Cumulativa	Not Completi
Gas Processed Plant Feed	Gross Volume	Net Helium 174,655	Average Percent 27.10%	Gross Cumulative	Net Cumulativ
Helium Product	644,414 220,145	174,655	78.71%	21,227,532 6,549,639	5,199,77 5,136,78
Residue Natural Gas	270,286	173,270	0.06%	9,458,508	1,11
Natural Gas & Liquids Produced		.,,		-,:,	.,,
Gas Processed				Month	FYT
Natural Gas Sales (Mcf***)				269,093	2,425,98
NGL Sales (gallons)				71,820	727,85
*** Volumes in Mcf at 14.73 psia & 60°F					
Bush Dome Reservoir Operations	Moi	nth			
Conservation gases from all sources	Gross Volume	Net Helium	Average Percent	Gross Cumulative	Net Cumulati
Total Withdrawn	653,554	186,142	28.48%	155,894,301	24,748,27
Crude Injection	0	0	#DIV/0!	65,508,749	47,273,83
Crude Production	16,073	11,394	70.89%	496,218	364,87
Storage Operations					
Conservation Helium		Month	FYTD	CYTD	Cumulati
Open Market Sale Volumes (Mcf*)		0	1,495,000	895,000	4,600,60
Conservation Helium in Storage (EOM)		23,795,020			•
Volumes in Mcf at 14.65 psia & 60°F		•			
n Kind Helium		Month	FYTD	CYTD	Cumulat
Sale Volumes Transferred		612	136,606	84,449	1,753,3
Sale Volumes Outstanding		42,685	,	,	,,-
/olumes in Mcf at 14.65 psia & 60°F		,		,	
Private Company Helium Storage Contract	s	Mo	nth		Annual
Contact Activity		Gross Volume	Net Helium	Average Percent	Helium FYTD
Crude Acquired		76,201	50,950	66.86%	598,90
Crude Disposed		305,808	228,781	74.040/	
			220,701	74.81%	2,257,21
•		(229,607)	(177,831)	74.81%	
Net Balance		(229,607)	*	74.81%	
Net Balance Balance of Stored Helium End Of Month Volumes in Mcf at 14.65 psia & 60°F		(229,607)	(177,831)	74.81%	
Net Balance Balance of Stored Helium End Of Month		(229,607)	(177,831)	74.81%	
Net Balance Balance of Stored Helium End Of Month Volumes in Mcf at 14.65 psia & 60°F  Revenue / Charges		(229,607)	(177,831)	74.81%	(1,658,31
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Net Balance Balance of Stored Helium End Of Month  //olumes in Mcf at 14.65 psia & 60°F  Revenue / Charges Helium Storage Contracts (Charges Billed (\$)  Storage Fees Billed (\$)  Reservoir Management Fees Billed (\$)  Field Compressor Charges (Charges Billed (\$)  Funded by Cliffside Refiners, LP (provides for booster compression of the	es BLM for fuel, labor, s	supplies, etc.)	(177,831)	Month \$309,682 \$204,222 Month (\$54,473)	(1,658,3 FY \$2,800,8i \$1,888,5 FY (\$589,3i \$151,4
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		Gross V	Vithdrawal	Net Helium	n Withdrawal	Nitro	ogen	Met	hane	Ethan	e plus	Other (CC	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
<u>TOTAL</u>		653,554	155,894,301	186,142	24,748,274	162,631	<u>38,153,011</u>	270,555	83,461,977	28,754	8,241,986	5,473	1,289,053
BIVINS A-3	Jul-06	21,725	9,225,607	12,924	2,575,050	5,553	2,335,993	2,855	3,873,928	259	378,154	135	62,482
BIVINS A-6	Jul-06	10,672	7,675,432	7,702	4,342,356	2,564	1,917,845	315	1,266,536	22	122,434	69	26,261
BIVINS A-13	Jul-06	41,811	3,107,205	24,033	2,044,546	10,468	834,856	6,441	198,177	580	19,955	288	9,671
BIVINS A-14	Jul-06	51,593	3,386,419	35,659	2,386,703	11,600	880,574	3,649	101,440	328	9,863	357	7,839
BIVINS A-4	Jul-06	43,504	9,306,602	20,490	1,341,657	10,601	2,249,793	10,886	5,130,651	1,197	503,236	330	81,265
BUSH A-2	Jul-06	40,871	8,481,764	18,018	1,011,049	10,443	2,047,610	10,887	4,866,265	1,241	480,023	282	76,818
Injection	Jul-06	0	65,508,749	0	47,273,838	0	16,927,126	0	761,740	0	16	0	546,029
inj Bivins A-3	Jul-06	0	(25,652,212)	0	(18,384,374)	0	(6,554,527)	0	(332,774)	0	0	0	(380,537)
inj Bivins A-6	Jul-06	0	(23,469,328)	0	(16,941,779)	0	(6,296,882)	0	(124,277)	0	(7)	0	(106,384)
inj Bivins A-13	Jul-06	0	(6,490,417)	0	(4,706,191)	0	(1,656,853)	0	(122,391)	0	(2)	0	(4,980)
inj Bivins A-14	Jul-06	0	(6,501,333)	0	(4,767,421)	0	(1,602,106)	0	(126,303)	0	(7)	0	(5,497)
inj Bivins A-4	Jul-06	0	(2,527,801)	0	(1,848,815)	0	(601,353)	0	(42,016)	0	0	0	(35,617)
inj Bush A-2	Jul-06	0	(867,658)	0	(625,258)	0	(215,406)	0	(13,980)	0	0	0	(13,015)
Production	Jul-06	16,073	496,218	11,394	364,877	3,806	106,499	708	20,074	58	1,404	107	3,364
BIVINS A-1	Jul-06	0	2,686,608	0	48,896	0	636,995	0	1,798,415	0	175,704	0	26,597
BIVINS A-2	Jul-06	23,329	11,727,534	3,373	1,739,982	5,752	2,888,818	12,661	6,376,022	1,347	627,584	196	95,128
BIVINS A-5	Jul-06	29,680	12,521,860	8,608	1,223,389	7,572	3,036,937	11,936	7,418,315	1,340	731,488	224	111,731
BIVINS A-7	Jul-06	27,246	8,759,119	9,623	1,774,326	7,089	2,180,468	9,293	4,311,514	1,062	427,381	179	65,429
BIVINS A-9	Jul-06	44,491	7,314,918	876	134,487	11,319	1,763,200	28,879	4,864,393	3,043	482,721	374	70,117
BIVINS A-11	Jul-06	32,876	3,543,071	674	65,841	8,318	861,118	21,327	2,346,696	2,252	235,271	306	34,145
BIVINS A-15	Jul-06	38,476	6,523,937	1,174	363,970	9,026	1,560,636	25,232	4,127,577	2,601	408,421	442	63,333
BIVINS B-1	Jul-06	44,496	4,388,312	2,036	177,570	10,932	1,055,635	28,155	2,828,480	2,951	284,308	423	42,319
BIVINS B-2	Jul-06	38,529	3,251,845	740	60,466	9,790	797,143	24,797	2,139,784	2,616	215,822	586	38,630
BUSH A-1	Jul-06	0	5,721,962	0	104,140	0	1,356,677	0	3,830,281	0	374,216	0	56,647
BUSH A-3	Jul-06	33,769	8,296,643	18,187	1,173,604	8,702	2,017,609	5,914	4,579,663	693	451,438	274	74,330
BUSH A-4	Jul-06	23,678	5,956,385	6,592	1,053,409	6,102	1,473,429	9,762	3,078,160	1,076	305,438	147	45,948
BUSH A-5	Jul-06	39,700	11,728,772	12,745	2,309,763	10,129	2,923,574	14,950	5,832,361	1,649	576,367	226	86,707
BUSH A-8	Jul-06	15,006	2,465,169	276	45,004	3,636	587,764	9,860	1,643,240	1,020	162,663	213	26,498
BUSH A-9	Jul-06	0	3,365,824	0	78,958	0	804,323	0	2,230,705	0	220,113	0	31,724
BUSH A-11	Jul-06	21,325	2,670,707	822	72,076	5,142	636,794	13,685	1,757,099	1,422	176,073	254	28,665
BUSH B-1	Jul-06	797	3,085,972	16	57,935	193	731,945	526	2,063,467	54	202,228	7	30,398
FUQUA A-1	Jul-06	0	2,954,069	0	53,853	0	702,791	0	1,975,156	0	193,571	0	28,699
FUQUA A-2	Jul-06	0	132,119	0	2,404	0	31,322	0	88,458	0	8,637	0	1,297
FUQUA A-3	Jul-06	29,980	7,616,444	1,574	506,839	7,699	1,839,164	18,546	4,735,194	2,000	468,878	162	66,369
TT Fuel	Jul-06	797	0	3	0	31	0	85	0	9	0	1	0
	fie	eld-wide pcts		28.48%	15.88%	24.88%	24.47%	41.40%	53.54%	4.40%	5.29%	0.84%	0.83%

Latest estimates of reserves and feed to HEU	
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Based on NITEC's 2003 reserves study from NITEC's interim report

est z-factor 0.970

As of EOM Jul-06	Volumes in BCF	
Initial Gas In Place	330.040	
Produced 1924 to 1961	48.830	
Injected 1924 to 1961	0.450	
Remaining Gas In Place 1961	281.660	
Left Behind Pipe, 1961	82.060 ====>	1.500 BCF of contained helium
Remaining in Place, 1961	199.600	
Gas In Place 1961	199.600	
Produced 1961 to July 2002	82.450	
Injected 1961 to July 2002	64.510	Net Helium
Remaining Gas In Place July 2002	181.660	33.997
Produced July 2002 through Dec 2002	1.096	0.743
Production 2003 - 05	19.119	5.367
Injection 2003 - 05	(0.420)	(0.329)
Produced to Date 2006	4.398	1.243
Injected to Date 2006	(0.080)	(0.063)
Amount of Raw Gas Available to CHEU	157.546 ====>	27.035 total helium in reservoir
Estimated Bottom Hole Pressure	574.027	

# Crude Helium Enrichment Unit Operations

		Gross W	/ithdrawal	Net Helium	Withdrawal	Nitr	ogen	Met	hane	Ethar	ne plus	Other (CO	02, Ar, H2)
		Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative	Month	Cumulative
Measured Feed	Jul-06	644,414	21,227,532	174,655	5,199,771	161,263	5,333,625	273,980	9,494,161	29,209	1,018,931	5,307	181,044
Calculated Feed	Jul-06	636,685	21,464,432	174,732	5,270,703	158,632	5,391,212	269,320	9,593,899	28,641	1,025,807	5,359	182,811
Feed to Box	Jul-06	632,892	21,342,233	174,732	5,270,703	158,632	5,391,212	269,320	9,593,899	28,641	1,025,807	1,567	60,612
Cheu Product	Jul-06	220,145	6,549,639	173,270	5,136,780	40,692	1,238,001	4,663	129,436	30	293	1,490	45,129
Residue	Jul-06	270,286	9,458,508	152	1,116	6,763	234,603	239,231	8,381,414	24,137	840,191	3	1,184
Cold Box Vent	Jul-06	102,834	4,160,633	319	78,433	93,322	3,380,368	9,157	642,653	7	96	28	59,084
Flare/Boot Strap	Jul-06	0	0	0	0	0	0	0	0	0	0	0	0
Fuel From Cheu	Jul-06	9,878	233,686	5	164	296	6,615	7,996	188,283	1,580	38,623	0	0
Shrinkage/Loss	Jul-06	2,248	69,984	0	0	0	0	0	0	2,248	69,984	0	0
Unaccounted*	Jul-06	18,652	410,256	240	27,099	15,050	331,533	3,317	49,451	(0)	1,071	45	1,102

\*Before October 2004, the values are estimated

#### Storage Operations

Inventory (contained helium)	·	
	Government	Private
Beginning inventory	23,801,315	1,137,668
net acceptances +	0	0
redeliveries	0	(177,831)
In Kind Transfers	(612)	612
Open Market Sales	0	0
Gain/loss	(5,683)	
Ending Inventory	23,795,020	960,449
Total Helium in Reservoir	27,034,716	
Total Helium in Storage	24,755,469	
Helium in native gas	2,279,246	
I		

#### Crude Helium Pipeline

_	Gross	Net Helium	Percent
Beginning inventory	39,237	29,496	75.17%
Measured to Pipeline (Private Plants)	76,491	51,094	66.80%
Measured from Pipeline (Private Plant	305,808	228,781	74.81%
HEU Production	220,145	173,270	78.71%
Injection	0	0	0.00%
Production	16,073	11,394	70.89%
Ending Inventory	40,997	30,791	75.11%
Gain/Loss	(5,141)	(5,683)	

# Tuck Trigg Reservoir Operations

	-		Since Field	
Native Gas (Gross)	Month	Fiscal Year	Discovery	l
Total in place, beg. of period	5,198,688	5,198,688	5,890,000	l
Recoverable in place, beg. of period	4,528,688	4,528,688	5,220,000	l
Production during period to date	0	0	691,312	l
Total in place, end of month	5,198,688	5,198,688	5,198,688	l
Recoverable in place, end of month	4,528,688	4,528,688	4,528,688	l

										<u>,                                    </u>
	NASA*	Navy*	Army*	Air Force*	DOE*	Other Fed*	Subtotal*	In Kind+	Charges I	Billed (\$)**
In Kind Heliur	n									
Aeriform, Contract Month FYTD	t no. INC98-0	101							(b	illed quarterly)
AGA Gas, Inc., Co Month FYTD	ntract no. INC	C98-0102								
AirGas, Inc., Conti	ract no. INC9	8-0103								
Air Liquide Helium Month FYTD	n America, Ind	c., Contract no	o. INC98-	0104						
Air Products, L.P., Month FYTD	Contract no	. INC98-0105								
BOC Global Heliur Month FYTD	m, Inc., Contr	act no. INC98	-0106							
Corp Brothers, Inc Month FYTD	c., Contract n	o. INC98-0107								
FIBA Technologies Month FYTD	s, Inc., Contra	act no. INC98-	0108							
General Air Servic Month FYTD	e & Supply C	Co., Contract n	o. INC98	3-0109						
Jack B. Kelley Co. Month FYTD	, Contract no	. INC98-0110								
Portland Welding Month FYTD	Supply, Cont	ract no. INC98	3-0111							
Praxair, Inc., Cont Month FYTD	ract no. INC9	8-0112								
United States Weld Month FYTD	ding, Inc., Co	ntract no. INC	98-0113							
Tri-Gas, Inc., Cont Month FYTD	ract no. INC9	98-0114								
GT & S, Contract r Month FYTD	no. INC00-011	15								
Total month	0	0	0	0	0	0	0	0		\$0
Total FYTD	71,850	4,759	0	12,477	20,136	18,399	127,621	125,652		\$7,008,341
Total CYTD	46,275	3,104	0	8,273	14,784	10,349	82,785	81,507		\$4,602,443
Cumulative	1,063,770	37,860	186	222,925	262,069	237,428	1,824,239	1,795,925		\$92,091,633
In Kind Trans	ters						Month	FYTD	CYTD	Cumulative
Transferred Volume outstanding							612 42,685	136,606	84,449	1,753,315

<sup>\*</sup> Volumes in Mcf at 14.7 psia & 70°F

<sup>+</sup> Volumes in Mcf at 14.65 psia & 60°F

### **Helium & Natural Gas Sales**

	Award Volume*	Outstanding*	Sales*	Cha	arges Billed (\$)**
Conservation Helium					(billed quarterly)
Air Liquide Helium America, Inc.					
Month	0	0	0		\$0
FYTD	0	0	0		\$0
Cumulative	50,000		50,000		\$2,625,000
Air Products, L.P.					
Month	0	(200,000)	200,000		\$11,300,000
FYTD	500,000	0	860,000		\$47,870,000
Cumulative	1,700,400		1,700,400		\$92,311,000
BOC Global Helium, Inc.					
Month	0	(270,000)	270,000		\$15,255,000
FYTD	485,000	0	485,000		\$27,402,500
Cumulative	2,169,000		2,169,000		\$117,237,500
Keyes Helium Co., LLC					
Month	0	0	0		\$0
FYTD	0	0	40,000		\$2,180,000
Cumulative	191,200		191,200		\$10,231,400
AGA Gas, Inc.					
Month	0	0	0		\$0
FYTD	0	0	0		\$0
Cumulative	50,000		50,000		\$2,700,000
Praxair, Inc.					
Month	0	(160,000)	160,000		\$9,040,000
FYTD	500,000	0	700,000		\$39,150,000
Cumulative	960,000		960,000		\$53,320,000
Linde Gas LLC					
Month	0	(40,000)	40,000		\$2,260,000
FYTD	80,000	0	80,000		\$4,520,000
Cumulative	150,000		150,000		\$8,335,000
Total month	0	(670,000)	670,000		\$37,855,000
Total FYTD	1,565,000	0	2,165,000		\$121,122,500
Total CYTD	1,475,000		1,565,000		\$88,422,500
Cumulative	5,270,600		5,270,600		\$286,759,900
Open Market Transfers		Month	FYTD	CYTD	Cumulative
Transferred		0	1,495,000	895,000	4,600,600
Volume outstanding		670,000			

<sup>\*</sup> Volumes in Mcf at 14.65 psia & 60°F

**Natural Gas/Liquid Sales** 

	Natural Gas (Mcf)***	NGLs (gal)	Decatherms	\$/unit	Charges Billed (\$)**
El Paso Natural Gas	<u>S</u>	Provides Firm/Interru	ptible natural gas trar	sportation services	(billed monthly)
Month	269,203		295,970	(\$0.0946)	(\$27,997)
FYTD	2,475,960		2,715,839	(\$0.1040)	(\$282,396)
Cumulative	9,049,243		9,944,323	(\$0.1113)	(\$1,107,165)
Minerals Manageme	ent Service	Provides natural gas	marketing services u	nder a Cooperative A	greement
Month					\$0
FYTD				(\$0.0034)	(\$8,341)
Cumulative				(\$0.0079)	(\$71,041)
Cenergy Marketing					
Month	269,093	0	295,895	\$5.534032	\$1,616,849
FYTD	2,425,986	0	2,661,211	\$7.076299	\$18,690,449
Cumulative	9,079,399	0	9,912,529	\$6.132622	\$60,420,214
Seminole Transpor	tation & Gathering				
Month	0	71,820	7,750	\$12.674199	\$98,225
FYTD	0	727,859	78,106	\$11.720592	\$915,449
Cumulative	0	2,223,129	234,625	\$9.690798	\$2,273,704
Total month	269,093	71,820	303,645	\$5.624069	\$1,687,077
Total FYTD	2,425,986	727,859	2,739,317	\$7.102587	\$19,315,160
Total CYTD	1,676,079	515,761	1,891,767	\$5.951604	\$11,139,531
Cumulative	9,079,399	2,223,129	10,147,154	\$6.098783	\$61,515,711

<sup>\*\*\*</sup> Volumes in Mcf at 14.73 psia & 60°F

All Volumes in Mcf at 14.7 psia & 70°F

Revenue Collected From Federal Leaseholds	Month*	FYTD*
Fee Sales & Royalties	\$586,595	\$6,229,205
Natural Gas Royalties (1)	\$2,878	\$26,472
Natural Gas Rentals	\$0	\$0
Other	\$6,980	\$88,672
Revenue Collected from Federal Lease Holds	\$563,974	\$6,262,908

<sup>\*</sup>Totals do not sum

Helium Analysis and Evaulation	Month	FYTD
Number of Sample Request Letters Sent	3	196
Number of Samples Received	4	34
Number of Samples Analyzed	5	52
Total Number of Samples Analyzed For Resources Division	11	90
Total Number of Samples Analyzed (2)	141	1,504

### **U. S. Helium Production**

Domestic	CY Volumes
2000 Helium Sold	4,564,589
2001 Helium Sold	4,756,719
2002 Helium Sold	4,584,904
2003 Helium Sold	4,393,555
2004 Helium Sold	4,692,699
2005 Helium Sold	4,800,782
2006 Helium Sold	4,500,000
Estimated Helium Resources (as of 01/01/2003)	305,000,000

		FY-2005	CY-2005
U.S. Helium Exports	(3)	1,826,048	1,851,322

- (1) Includes drip gas sales & other miscellaneous gas sales.
- (2) Includes pipeline, field survey, and other requested analyses.
- (3) Data from Department of Commerce Bureau of the Census.

All Volumes	in Mcf at 14.	.65 psia 8									
	Metered Gas Gross Gas Helium Helium Helium			Transferred Gas Helium		Stored	Charges Billed (\$)**				
-		eiium %   Month	Hellum	FYTD	Helium CYTD	Cumulative	Month	Cumulative	Helium EOM	Month	FYTD
Total All Contrac		VIOLITI		1110	CIID	Cumulative	IVIOTILIT	Cumulative	LOIVI	IVIOTILIT	1110
Crude Acquired	76,201	66.9%	50,950	598,907	430,358	27,083,202	78,479	32,820,951			
•										¢200 692	Storogo Food
Crude Disposed	305,808	74.8%	228,781	2,257,217	1,573,797	30,355,537	77,867	27,109,449		\$309,682	Storage Fees
Grade-A Rdlvrd	0		(477,024)	(4.050.240)	(4.442.420)	1,478,718	040	F 744 F00	000 440	\$204,222	RMF Fees
Net/Balance	(229,607)	NATED)	(177,831)	(1,658,310)	(1,143,439)	(4,751,053)	612	5,711,502	960,449	\$513,904	\$4,689,425
Total Prior Cont	racts (TERIMI	NATED)				47 400 400		40 400 000			
Crude Acquired				0	0	17,406,129	0	18,196,898			
Crude Disposed				0	0	11,830,863	0	19,148,768			
Grade-A Rdlvrd				0	0	1,478,718			_		
Number of trailers				0	0	9,834			0		
<b>BOC Global Heli</b>	ium, Inc., Cor	ntract no.	1995-324	.9							
Crude Acquired											
Crude Disposed											
Net/Balance											
Praxair, Inc., Co	ntract no. 199	95-3251									
Crude Acquired											
Crude Disposed											
Net/Balance											
Air Products, L.I	P., Contract r	no. 1995-3	3256								
Crude Acquired											
Crude Disposed											
Net/Balance											
Oneok Field Ser	vices, Contra	ct no. 19	95-3258								
Crude Acquired											
Crude Disposed											
Net/Balance											
ExxonMobil Gas	Marketing C	o Contr	act no. 19	95-3280							
Crude Acquired	<b>.</b> .	,									
Crude Disposed											
Net/Balance											
Pioneer, Contrac	ct no. 1995-3	286									
Crude Acquired											
Crude Disposed											
Net/Balance											
Keyes Helium C	o., LLC, Conf	ract no 1	1995-3287								
Crude Acquired	, <b></b> ,										
Crude Disposed											
Net/Balance											
Linde Gas LLC,	Contract no	2001-328	2								
Crude Acquired	Continuot 110.	_001-020	_								
Crude Disposed											
Net/Balance											
Air Liquide Heliu	ım America	Inc Cont	tract no 3	003-3384							
Crude Acquired	ani Amenica,	, COIII	ii act IIU. 2	.000-3204							
Crude Acquired Crude Disposed											
Net/Balance											

Government He	elium	
Remaining Crude	Acquired beginning of the month	23,801,315
Crude Disposed:	In Kind Sales transferred for the month	(612)
	Open Market/Reserve Sell Down transferred for the month	0
	Gains and Loses for the month	<u>(5,683)</u>
Net/Balance of Pu	rchased Helium Remaining for Sale	23,795,020

<sup>\*</sup>Includes In Kind and Open Market transfers from Government storage

\*\*Rounded to nearest dollar

Field/CHEU Compressor Operations		Month	FYTD	Cumulative
Spot gas fuel price *	\$ per/MMBTU	\$5.53	\$7.04	\$5.89
Fuel used *	total MMBTU	12,157	133,244	449,646
Field compressor fuel revenue *	\$dollars	\$2,932	\$50,292	\$525,685
HEU compressor fuel credit *	\$dollars	\$40,158	\$488,535	\$1,269,179
HEU fuel credit *	\$dollars	\$24,138	\$399,144	\$855,159
#1 Compressor run time *	hours	741	6,619	29,347
#2 Compressor run time *	hours	18	3,659	18,580
#3 Compressor run time *	hours	655	3,557	13,692

<sup>\*</sup> Field/CHEU Compressor Operations based on Jul 06 activity

Field Compressor Charges	Charges Billed (\$)*		5)*
BOC Global Helium, Inc., Contract no. 1995-3249			
Praxair, Inc., Contract no. 1995-3251			
Air Products, L.P., Contract no. 1995-3256			
Keyes Helium Co., LLC, Contract no. 1995-3287			
SubTotal - Cliffside Refiners, LP (provides booster compression services)	(\$54,473)	(\$589,384)	(\$4,750,533)
Cliffside Refiners, LP, GDA010003 (BLM provided fuel *, labor, supplies, etc.)	<u>\$10,677</u>	<u>\$151,476</u>	<u>\$1,165,203</u>
Net Total - Cliffside Refiners, LP	(\$43,796)	(\$437,908)	(\$3,585,330)

<sup>\*</sup> BLM provided fuel cost is based on May 06 fuel consumed

\*Rounded to nearest dollar

Crude Helium Enrichment Unit (CHEU)	Month		FYTD	Cumulative
CHEU Runtime	Runtime Percent		Runtime	Runtime
Processing feed gas	718	96.5%	6,897	26,810
Producing natural gas liquids	691	92.8%	6,765	21,006
Producing helium product	671	90.2%	6,705	24,261
Producing residue gas	700	94.0%	6,771	25,201

	Charges Billed (\$)*		
CHEU Charges	Month	FYTD	Cummulative
Reservior Management Fees (RMF)	\$204,222	\$1,888,541	\$5,555,255
Total operating costs	<u>(\$851,694)</u>	<u>(\$8,679,861)</u>	(\$32,220,906)
Labor	\$57,952	\$579,520	\$2,052,972
Compressor fuel cost *	\$43,266	\$559,060	\$1,156,720
HEU fuel cost *	\$36,220	\$443,216	\$847,645
Electric Power *	\$143,240	\$1,485,603	\$4,454,790
Other	<u>(\$280.678)</u>	<u>(\$3,067,399)</u>	<u>(\$4,390,175)</u>
Sub Total - Items provided by BLM	\$383,194	\$3,994,861	\$13,764,910
Total - Cliffside Refiners, LP, GDA030001	(\$468,500)	(\$4,685,000)	(\$18,455,996)

<sup>\*</sup> Based on May 06 activity

\*Rounded to nearest dollar

CHEU Utility Usage	Month	FYTD	Cumulative
Cheu Fuel Gas (Mcf) *	3,832	49,748	135,245
Cheu Pure Water Usage (gallons) *	3,565	30,821	121,413
Electricity Metered (Kwh) used *	2,459,687	22,750,918	77,294,202